

DEPARTMENT OF HEALTH AND HUMAN SERVICES

NATIONAL INSTITUTES OF HEALTH

Buildings and Facilities

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NATIONAL INSTITUTES OF HEALTH

Buildings and Facilities

For the study of, construction of, renovation of, and acquisition of equipment for, facilities of or used by the National Institutes of Health, including the acquisition of real property, [\$81,900,000] *\$81,081,000*, to remain available until expended.

[Department of Labor, Health and Human Services, and Education, and Related Agencies Appropriations Act, as enacted for Fiscal Year 2006]

NATIONAL INSTITUTES OF HEALTH

Buildings and Facilities

Amounts Available for Obligation ^{1/}

Source of Funding	2005 Actual	2006 Appropriation	2007 Estimate
Appropriation	\$111,177,000	\$81,900,000	\$81,081,000
Rescission	-889,000	-819,000	
Subtotal, adjusted appropriation	110,288,000	81,081,000	81,081,000
Subtotal, adjusted budget authority	110,288,000	81,081,000	81,081,000
Unobligated Balance, start of year	295,844,000	166,886,000	62,800,000
Unobligated Balance, end of year	-166,886,000	-62,800,000	
Total obligations	239,246,000	185,167,000	143,881,000

1/ Excludes the following amounts for reimbursable activities carried out by this account: FY 2005 - \$750,000; FY 2006 - \$1,000,000; FY 2007 - \$1,000,000.

Justification

Buildings and Facilities

Authorizing Legislation - Section 402(b) of the Public Health Service Act, as amended.

	<u>2005 Actual</u>	<u>2006 Appropriation</u>	<u>2007 Estimate</u>	<u>Increase or Decrease</u>
Budget authority.....	\$110,288,000	\$81,081,000	\$81,081,000	\$0
<u>Total obligations.....</u>	<u>(239,246,000)</u>	<u>(185,167,000)</u>	<u>(143,881,000)</u>	<u>(41,286,000)</u>

Introduction

The National Institutes of Health (NIH) facilities program provides reliable, safe, and secure research and research support facilities that are equipped, operated, and maintained in order to meet the changing needs of the NIH programs they house. The NIH FY 2007 Buildings and Facilities (B&F) budget request strikes a balance between the infrastructure needs of the NIH research enterprise and the need for responsible utilization and stewardship of yesterday's investments in the "bricks and mortar".

FY 2007 Request

Budget Policy

Table 1 is a summary of the funding for Buildings and Facilities (B&F) in FY 2000 through FY 2006.

Table 1 - Summary of B&F Funding by Program Activity FY 1999 through FY 2006:

Year	Construction	Essential Safety and Regulatory Compliance	Physical Security	Repairs and Improvements	Renovations	Equipment/ Systems/ Enabling	Total
FY 2000	68,300,000 (67,000,000 CRC ^{1/})	29,174,000	0	50,676,000	7,200,000	10,000,000	165,350,000
FY 2001	62,015,000	12,971,000	0	60,090,000	8,200,000	17,600,000	160,876,000
FY 2002	127,100,000	61,700,000	25,000,000	64,600,000	14,100,000	3,600,000	296,100,000
FY 2003	470,618,000	6,200,000	80,000,000	55,800,000	24,069,000	2,000,000	638,687,000
FY 2004	9,500,000	13,472,000	0	70,500,000	5,500,000	0	98,972,000
FY 2005	28,059,000	6,000,000	0	58,429,000	10,800,000	7,000,000	110,288,000
FY 2006	700,000	14,000,000	0	66,381,000	0	0	81,081,000

1/ Includes \$10,000,000 comparable adjustment for IC R&I projects.

The FY 2007 budget authority request of \$81,081,000 is the same as the FY 2006 level that provides funding for continuing commitments including the Repair and Improvements program.

Table 2 - Summary of FY 2007 Request

Year	Construction	Essential Safety and Regulatory Compliance	Repairs and Improvements	Renovations	Equipment/ Systems/ Enabling	Total
FY 2007	700,000	14,500,000	65,881,000	0	0	81,081,000

Program Activities

The Buildings and Facilities (B&F) budget request funds the NIH's multiple research infrastructure priorities. Rapid advances in the understanding of basic biology and the complexity of human disease are providing unique research opportunities for new treatments and cures. To continue this success story, facilities are upgraded to integrate new research tools that could accelerate the pace of research discoveries. These proposals for construction, renovations and improvements will support longstanding commitments to create and sustain a robust, modern, safe and secure physical infrastructure to continue to support the research agenda and the vitality of the NIH biomedical research enterprise.

The proposed FY 2007 B&F budget request provides funds for specific projects in three program areas (Construction, Essential Safety and Regulatory Compliance, and Repairs and Improvements) within the context of a five-year strategy. The request supports longstanding commitments to create and sustain a robust, modern, safe and secure physical infrastructure to conduct basic and clinical research across the spectrum of biologic systems and diseases. The following programs and projects are included in the B&F tables and described in greater detail below:

Construction: Planning, design, and construction of new research and research support facilities for ongoing and new scientific initiatives.

- Concept Development Studies

Essential Safety and Regulatory Compliance: Planning, design, and construction to remediate unsafe conditions, upgrade obsolete non-code complying systems, and bring existing facilities into compliance with current regulatory requirements.

- Asbestos Abatement Program
- Fire Protection and Life Safety Program
- Eliminate Barriers to Persons With Disabilities
- Rehabilitation of Animal Research Facilities
- Environmental Assessments / Remediation Program

Repairs and Improvements: Replacement of major building systems that have worn out and/or failed, which will extend the useful life and utility of the facility.

- Repairs and Improvements Program

Construction - \$0.7 million

Concept Development Studies: \$ 0.7 million

The request for Concept Development Studies (CDS) will fund pre-project planning to define the scope, cost, and life cycle benefits of a project before NIH initiates formal requests for design and construction funds. This approach enhances the HHS-wide B&F priority-setting process and expedites project design.

Essential Safety and Regulatory Compliance: \$14.5 million

The funds allocated to Essential Safety and Regulatory Compliance enable the NIH to maintain valuable research capacity and to ensure the safety of NIH facilities and their occupants. As buildings age and health and safety guidelines change, facilities once considered "modern" become outmoded, non-compliant, and in some cases, hazardous. The NIH continues to upgrade many of its older facilities for safe use so that valuable activity can be continued efficiently and effectively without disruption.

Asbestos Abatement Program (on-going): \$2.0 million

The budget request level for this multi-year program will support the continued removal of asbestos-containing materials from various NIH buildings. Asbestos is present in virtually all the older NIH buildings' insulation, fireproofing and ceiling and wall finishes. Disturbed or deteriorating asbestos fibers can be released into the air, risking the health of those persons exposed. The major emphasis of this program has been to abate asbestos-containing material from utility spaces where the majority of friable, deteriorated asbestos resides.

Fire Protection and Life Safety Program (on-going): \$5.0 million

Funding is requested for a multi-year program to upgrade the fire protection and life safety equipment of NIH buildings. Older facilities will be upgraded to provide full protection to all occupants of NIH facilities, as well as protection of critical research facilities and resources. Early in this program, a master fire protection plan was developed. Since that time, the NIH has been executing elements of the plan including the installation of automatic fire alarm, fire sprinkler and suppression systems. The program is also meeting safety code regulations and enhancing the emergency egress components throughout the NIH facilities. These include the upgrade of fire doors, fire door hardware, emergency lighting, exit marking and related improvements.

In previous years, the appropriations funded a comprehensive safety survey of the Bethesda campus and the NIH Animal Center (NIHAC) in Poolesville, Maryland, which identified a list of existing fire protection and life safety deficiencies; the development of

a master plan for life safety improvements; and the design of several corrective actions. Types of projects included in the master plan were exit signs, emergency egress lighting, egress stair deficiencies, firewalls, sprinkler protection and fire alarm coverage. Through this program, the NIH has awarded contracts to correct the most critical deficiencies at various locations at the NIH. Many of these projects have been completed while others are in different phases of design or construction. This request for funding will also support the continued phased replacement of the Bethesda Campus Fire Alarm Reporting System.

Eliminate Barriers to Persons with Disabilities (on-going): \$1.5 million

This program continues to systematically remove existing barriers in and around NIH buildings. An initial survey of NIH buildings was completed in 1992. It identified access and architectural barriers that must be removed to ensure NIH facilities comply with the Uniform Federal Accessibility Standards (UFAS) and Section 508 of the Civil Rights Act for Federal Employees. The NIH is updating its accessibility plan through a systematic facility survey and development of a corrective action prioritization plan. The facility survey is currently in its third phase. The first two survey phases focused on buildings that are older and/or serve a greater NIH population. The first two survey phases have been reviewed and the deficiencies have been placed in category order as required by UFAS for existing facilities:

Prioritization of the corrective actions identified in the updated plan is underway. The current request will support NIH's short-term goal of ensuring that all facilities have at least one accessible route, at least one entrance, and at least one accessible toilet facility for each gender. The requested funds will be used to continue to improve and eliminate barriers to NIH facilities for persons with disabilities.

Rehabilitation of Animal Research Facilities (on-going): \$5.0 million

An important factor in the effective application of animal models in biomedical research is high-quality animal care provided in well-built, well-maintained, and well-equipped animal facilities. These funds will continue the support of a comprehensive program for the upgrading and long-term preventive maintenance of NIH animal facilities located on the Bethesda campus and at satellite locations. This ongoing program supports emerging programmatic priorities to maintain efficient operations and to comply with stringent Association for the Assessment and Accreditation of Laboratory Animal Care (AAALAC) standards and requirements. The standards drive improvements to heating, ventilation, and cooling systems; the provision of appropriate storage space for sanitized animal caging; and repairs to or replacement of various interior finish systems to help ensure strict sanitary conditions. Examples of the types of projects to be accomplished include the continued replacement of hollow metal core doors with solid doors in the animal facilities because of their tendency to allow cockroaches to harbor in their

recesses; and patching, repairing, painting, and caulking of animal facilities as needed to enhance sanitization and eliminate pest harborage.

Environmental Assessments/Remediation Program: \$1.0 million

The funds requested will allow for environmental remediation activities at NIH sites. As the nation's premier health research facility, the NIH must set exemplary standards in complying with federal, state, and local environmental policies and regulations.

The program conducts environmental audits on NIH sites to identify potentially hazardous conditions and, when warranted, remediates conditions that could pose a threat to the health and safety of researchers, the general public, or the environment. This includes the ongoing development and implementation of a program to clear/decontaminate laboratories at NIH prior to their renovation; continued ongoing work in soil and groundwater remediation; and rapid response to any new remediation needs that become necessary.

Repairs and Improvements: \$65.881 million

The Repairs and Improvements (R&I) program supports repairs and improvements to the physical plant, building structure, building infrastructure, utility systems, roads, and grounds at Bethesda, Poolesville, and Baltimore, Maryland; Research Triangle Park, North Carolina; Hamilton, Montana; and other field stations and properties for which the NIH has an asset interest. Its purpose is to sustain the efficient and effective performance of NIH's real property assets to meet ongoing and projected research requirements and to offset the "natural" deterioration and obsolescence caused by age and use. The capital repair costs generally are cyclical and predictable, but in some cases are unanticipated. Roofs, roads, electrical, plumbing and mechanical systems, as well as underground utilities require scheduled, as well as ad hoc repairs to ensure dependable and safe operation. Other systems/facilities have unpredicted and largely one-time expenditures for the emergency repair or replacement of major equipment, such as transformers, chillers, and cooling towers. In addition, the R & I program supports improvements to the facility infrastructure necessary to meet changing mission requirements. Such efforts may include upgrading building systems, extending utility infrastructure, and other changes that extend the useful life of an existing facility

This request supports a plan for utility repair and improvement projects including: the continued upgrade of the primary compressed air and natural gas distribution lines and manholes on the Bethesda campus; upgrade of the primary electrical distribution systems in Buildings 38/38A, 7 and 29 on the Bethesda campus; repair of elevators; replacement of roof sections and other miscellaneous roof repairs; upgrade of HVAC systems and repair of fan coil units in multiple research and support facilities; repair of steam distribution lines; construction of the West Utility Electrical Switching Station on the Bethesda Campus; and continuation of the multi-year program to address the under capacity, deteriorated, and obsolete building systems in

Building 10 (Building 10 Repair Program). In addition, the plan supports other repairs and improvements such as: structural repairs to buildings and other site improvements such as roads, bridges, and walkways; upgrade of public spaces including restrooms; façade repairs including wall systems and windows. Also, supported are improvements to the infrastructure and structural systems to provide the necessary capacity to accommodate changes in the direction of research and to support IC renovations. Many of the repairs and improvements are identified by mission need, engineering studies and facility assessments that aid in the identification and prioritizing of the most critical projects.

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Budget Authority by Project
(Dollars in Thousands)

Project	2006 Appropriation	2007 Estimate	Change
<u>Essential Safety & Regulatory Compliance:</u>			
Asbestos Abatement Program	2,000	2,000	0
Fire Protection & Life Safety Program	5,000	5,000	0
Eliminate Barriers to Persons With Disabilities	1,500	1,500	0
Environmental Assessments / Remediations	0	1,000	1,000
Indoor Air Quality Improvement Program	500	0	(500)
Rehabilitation of Animal Research Facilities	5,000	5,000	0
<u>New Construction:</u>			
Concept Development Studies	700	700	0
Repairs & Improvements	66,381	65,881	(500)
Total budget authority	81,081	81,081	0
Unobligated balance, start of year	166,886	62,800	(104,086)
Unobligated balance, end of year	(62,800)	0	62,800
Total obligations	185,167	143,881	(41,286)

Buildings and Facilities includes funds only appropriated to this account. Some Institutes and Centers also budget for facilities renovations and associated construction costs in other operating mechanisms, which are not reflected in this table. The PHS Facilities Manual provides specific guidelines for use of operating funds.

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Buildings and Facilities

Summary of Changes

2006 Appropriation		\$81,081,000
2007 Estimated budget authority		81,081,000
Net change		0
	2006 Appropriation Budget Authority	Change from Base Budget Authority
<u>Increases:</u>		
A. <u>Program:</u>		
1. Asbestos Abatement Program	2,000,000	0
2. Fire Protection and Life Safety Program	5,000,000	0
3. Eliminate Barriers to Persons With Disabilities	1,500,000	0
4. Environmental Assessments / Remediation	0	1,000,000
5. Rehabilitation of Animal Research Facilities	5,000,000	0
7. Concept Development Studies	700,000	0
Total increases	14,200,000	1,000,000
<u>Decreases:</u>		
A. <u>Program:</u>		
1. Indoor Air Quality Improvement Program	500,000	(500,000)
2. Repairs and Improvements	66,381,000	(500,000)
Total decreases	66,881,000	(1,000,000)
Total, Net Change	81,081,000	0

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Buildings and Facilities

Budget Authority by Object

	2006 Appropriation	2007 Estimate	Increase or Decrease
Other Services (25.2)	81,081,000	81,081,000	0
(Obligations)	(185,167,000)	(143,881,000)	(41,286,000)
Total budget authority by object	81,081,000	81,081,000	0
(Total obligations by object)	185,167,000	143,881,000	(41,286,000)

Buildings and Facilities

SIGNIFICANT ITEM IN THE HOUSE APPROPRIATIONS COMMITTEE REPORT

FY 2006 House Appropriations Committee Report Language (H. Rpt 109-143)

Item

NIH Library of Medicine infrastructure - The Committee continues to support the work of the National Library of Medicine, the largest medical library in the world and the leader in digitized medical information resources. Previously, the Committee has taken steps to ensure that adequate funding was available for the architectural planning and design of a new NLM building to house the National Center for Biotechnology Information and other activities related to digital information development. With the preliminary work complete, the Committee encourages the Secretary to consider the commitment of necessary resources to begin construction of new physical facilities for the NLM to enable it to keep pace with the rapid increase in medical publishing and biotechnology information research and development.

Action taken or to be taken

The NIH, supported by the recommendations of the Facilities Working Group, has included this project in the overall NIH strategic facilities plan as a long term proposed project

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Buildings and Facilities

Authorizing Legislation

	PHS Act/ Other Citation	U.S. Code Citation	2006 Amount Authorized	2006 Estimate	2007 Amount Authorized	2007 Budget Estimate
Buildings and Facilities	Title IV, Section 402(b)(4)	40§282(b)	Indefinite	\$81,081,000	Indefinite	\$81,081,000
Total Budget Authority				\$81,081,000		\$81,081,000

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Appropriation History

Fiscal Year	Budget Estimate to Congress	House Allowance	Senate Allowance	Appropriation ^{1/}
1998	190,000,000	223,100,000	203,500,000	206,957,000
1999	224,309,000 ^{2/}	224,599,000	223,822,000	197,519,000
2000	148,376,000	148,376,000	140,732,000	175,376,000 ^{3/}
Rescission				(10,000,000)
2001	148,900,000	178,700,000	148,900,000	153,790,000
2002	236,600,000	311,600,000	306,600,000	234,600,000 ^{4/}
Rescission				(30,000,000)
2003	632,800,000	632,800,000	632,800,000	632,800,000
Rescission				(4,113,000)
2004	80,000,000	80,000,000	89,500,000	89,500,000
Rescission				(528,000)
2005	99,500,000	99,500,000	114,500,000	111,177,000
Rescission				(889,000)
2006	81,900,000	81,900,000	113,626,000	81,900,000
Rescission				(819,000)
2007	81,081,000			

1/ Reflects enacted supplementals, rescissions, and reappropriations.

2/ Reflects a decrease of \$677,000 for the budget amendment for bioterrorism.

3/ Includes \$40,000,000 of advanced appropriation for the Mark O. Hatfield Clinical Research Center.

4/ Reflects \$75,000,000 for the Global AIDS transfer.